

**STIC Database Tracking Number: 325226**

**To: THOMAS DUNN**  
**Location: REM-8B19**  
**Art Unit: 1700**  
**Monday, March 15, 2010**

**Case Serial Number: 10/670187**

**From: KENDRA BANKS**  
**Location: EIC1700**  
**REM-4A28**  
**Phone: (571)272-2516**

**kendra.banks@uspto.gov**

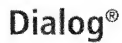
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**Examiner DUNN:**

**No Cases Reported**

**US 6,387,453**

**No Stories Found**



File 670:LitAlert 1973-2010/UD=201011  
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**SE3**

S1            0    PN='US 6387453'

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Command Searching > Utility, Design and Plant Patents 

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or	or	w/seg	in same segment
w/N	within N words	w/s	in same sentence
pre/N	precedes by N words	and not	and not

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517873 (09) 6387453 May 14, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6387453**

Get Drawing Sheet 1 of 7

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May 14, 2002

Method for making surfactant-templated thin films

**INVENTOR:** Brinker, C. Jeffrey - Albuquerque, New Mexico, United States (US) Lu, Yunfeng - San Jose, California, United States (US); Fan, Hongyou - Albuquerque, New Mexico, United States (US)

**APPL-NO:** 517873 (09)

**FILED-DATE:** March 2, 2000

**GRANTED-DATE:** May 14, 2002

**CORE TERMS:** film, surfactant, thin films, pore, sol, silica, organic, hybrid, solvent, concentration, mesoporous, mesophase, compound, cm<sup>2</sup>, ethanol, ratio, disordered, inorganic, nitrogen, min, surface areas, interstitial, substrate, reactant, dip-coating, molecule, molar, ligand, spin-coating, constant

**ENGLISH-ABST:**

An evaporation-induced self-assembly method to prepare a porous, surfactant-templated, thin film by mixing a silica sol, a solvent, a surfactant, and an interstitial compound, evaporating a portion of the solvent to form a liquid, crystalline thin film mesophase material, and then removal of the surfactant template. Coating onto a substrate produces a thin film with the interstitial compound either covalently bonded to the internal surfaces of the ordered or disordered mesostructure framework or physically entrapped within the ordered or disordered mesostructured framework. Particles can be formed by aerosol processing or spray drying rather than coating onto a substrate. The selection of the interstitial compound provides a means for developing thin films for applications including membranes, sensors, low dielectric constant films, photonic materials and optical hosts.

Source: Command Searching > Utility, Design and Plant Patents ⓘ

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